

FINAL

**STACK GAS EMISSION
TEST PROGRAM
INTERMOUNTAIN POWER PROJECT**

UNIT 1

**VOLUME 2
NEW SOURCE PERFORMANCE
TEST PROGRAM**

**PREPARED FOR :
INTERMOUNTAIN POWER PROJECT
DELTA, UTAH**

**IPSC TECHNICAL
SERVICES LIBRARY**

**BOOK # 2981
SECTION EN**

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SUMMARY

Unit #1 is a new steam generator located at the Intermountain Power Project Steam Generating Station in Delta, Utah. This plant is owned and operated by the Intermountain Power Project (IPP). The stack gas emissions are regulated by the United States Environmental Protection Agency (EPA) New Source Performance Specifications as set forth in the Code of Federal Regulations (CFR), Title 40, Part 60, Subpart Da. The unit must also meet the regulations as set forth by the State of Utah in the State of Utah's modified approval order dated December 19, 1985.

As a requirement of the cited regulations, Unit #1 must demonstrate its ability to operate below the emission limits as set forth in Subpart Da and the modified approval order. A test program was initiated to demonstrate that Unit #1 is able to comply with the above regulations. Table 1 presents the emissions species observed, the requirements for each, and the test results.

Based on the values measured on the test program, Unit #1 appears to be operating within the required emission limits. The New Source Performance Test Program was successfully completed on September 15, 1986.

TABLE 1. EMISSIONS TEST RESULTS

Parameter	Specification Requirement (40 CFR 40 Subpart Da)	Measured Unit #1
<u>NO_x Stack</u>		
Method 7 results	0.550 lb/MBtu	0.41 lb/MBtu
Rolling average	0.550 lb/MBtu	0.39 lb/MBtu
Valid data days	22.5 days min.	28 days
Data hours	540 hrs. min.	604 hrs
<u>SO₂ Stack</u>		
Method 6 results	0.150 lb/MBtu	0.092 lb/MBtu
Rolling average	0.150 lb/MBtu	0.060 lb/MBtu
Inlet SO ₂	--	0.820 lb/MBtu
Removal efficiency	90.0% min.	92.4%
Valid data days	22.5 min.	28 days
Data hours	540 hours min.	604 hrs.
<u>Particulate</u>		
Emissions	0.020 lb/MBtu	0.0121 lb/MBtu
% Isokinetic (avg)	90-110%	100.7%

NOTE: The information for the rolling average results are based on the September 15, 1986 CEM report. The report is located in Appendix E along with three other rolling average reports.

The NO_x and SO₂ emissions are from the average reference value from the relative accuracy tests.